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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,183	10/29/2003	Cheng-Hwa Liu	252011-1740	6537
47390 7590 10/14/2008 THOMAS, KAYDEN, HORSTEMEYER & RISLEY LLP 600 GALLERIA PARKWAY, 15TH FLOOR			EXA	MINER
			STERRETT, JONATHAN G	
ATLANTA, G	A 30339		ART UNIT	PAPER NUMBER
			3623	
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			10/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/696,183 LIU ET AL. Office Action Summary Examiner Art Unit JONATHAN G. STERRETT 3623 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

1) Responsive to communication(s) filed on 14 June 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is

closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

Status

4)🛛	Claim(s) <u>1-24</u> is/are pending in the application.
	4a) Of the above claim(s) is/are withdrawn from consideration.
5)	Claim(s) is/are allowed.
6)🛛	Claim(s) 1-24 is/are rejected.
7)	Claim(s) is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)∐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)	owledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a)∐ All	b) Some * c) None of:
1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No.

 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
3) Information Disclosure Statement(s) (FTO/SE/08)	 Notice of Informal Patent Application 	
Paner No/s VMail Date	6) Other: .	

Paper No(s)/Mail Date __

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DETAILED ACTION

This Non-Final Office Action is responsive to the amendment of 16 June 2008.
 Currently Claims 1-24 are pending in the application.

Response to Argument

The applicant's arguments have been fully considered but are not persuasive.

The applicant argues that Jenkins fails to teach the preamble's limitations of a method of dynamic customer demand forecasting.

The examiner respectfully disagrees.

In response to applicant's arguments, the recitation "method of dynamic customer demand forecasting" has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

The applicant argues that Jenkins fails to teach the claimed limitation of "inputting at least one forecast rule".

The examiner respectfully disagrees.

Jenkins teaches the inputting of allocations to spread inventory to meet demand (see para 30, a user can prorate the forecast – this is inputting of a rule – i.e. the prorating). Prorating orders to meet demand is a forecast rule, because it is a rule that applies to how the forecast is spread.

The applicant argues that Jenkins fails to teach calculating the forecast hit rate corresponding to the forecast rule.

The examiner respectfully disagrees.

The limitation argued is the subject of Official Notice in combination with Jenkins.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-12 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

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Claims 1 is rejected under 35 U.S.C. 101 based on Supreme Court precedent, and recent Federal Circuit decisions, the Office's guidance to examiners is that a § 101 process must (1) be tied to another statutory class (such as a particular apparatus) or (2) transform underlying subject matter (such as an article or materials) to a different state or thing. Diamond v. Diehr, 450 U.S. 175, 184 (1981); Parker v. Flook, 437 U.S. 584, 588 n.9 (1978); Gottschalk v. Benson, 409 U.S. 63, 70 (1972); Cochrane v. Deener, 94 U.S. 780,787-88 (1876).

An example of a method claim that would <u>not qualify</u> as a statutory process would be a claim that recited purely mental steps. Thus, to qualify as a § 101 statutory process, the claim should positively recite the other statutory class (the thing or product) to which it is tied, for example by identifying the apparatus that accomplishes the method steps, or positively recite the subject matter that is being transformed, for example by identifying the material that is being changed to a different state.

Here, applicant's method steps, fail the first prong of the new Federal Circuit decision since they are not tied to another statutory class and can be performed without the use of a particular apparatus. Thus, Claim 1 is non-statutory since it may be performed within the human mind. Claims 2-7 are dependent on Claim 1 and are not statutory at least for the reasons given above for claim 1.

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Claim 7 is a computer system comprised of modules. Modules are considered software not tangibly embodied on computer readable medium and thus are considered software per se. Software per se is printed matter and is not statutory under 35 USC 101. Claims 8-12 depend on Claim 7 and are similarly not statutory.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claim 1, 3-7, 9-13, 15-19 and 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jenkins et al. (U.S. Pub No. 2002/0188499 A1).

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Regarding to claim 1, Jenkins et al. discloses the invention substantially as claimed. Jenkins et al. discloses a computer implemented method of dynamic customer demand forecasting (paragraph [0002], lines 1-2), comprising using a computer (i.e. external system/web-client, see fig. 1b) to perform the steps of: inputting at least one forecast rule (paragraph [0028], lines 1-4, paragraph [0029], lines 1-3); accumulating forecasted demand (paragraph [0030], lines 7-10), selecting a highest hit rate from the forecast hit rate; and designating the forecast rule corresponding to the highest hit rate as a target rule (paragraph [0034], lines 1-3, paragraph [0037], lines 1-7). However, Jenkins et al does not explicitly disclose calculating at least one forecast hit rate, each of which corresponds to a forecast rule. It is common knowledge in the prior art (Official Notice) to calculate (i.e. accumulate) a forecast hit rate (i.e. orders) corresponding to a forecast rule when accumulating forecasted demand. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made for the method of Jenkins et al. to include to feature of calculating at least one forecast hit rate (i.e. orders), each of which corresponds to a forecast rule. The motivation for doing so would have been to adjust/modify the forecasted demand by selecting the highest hit rate as the target rule.

Regarding to claim 7, Jenkins et al. discloses the invention substantially as claimed. Jenkins et al. discloses an apparatus (i.e. machine/server) of dynamic customer demand forecasting (see fig. 1a), comprising: inputting at least one forecast rule (paragraph [0028], lines 1-4, paragraph [0029], lines 1-3); accumulating forecasted demand (paragraph [0030], lines 7-10), accumulating forecasted demand (paragraph

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[0030], lines 7-10), selecting a highest hit rate from the forecast hit rate; and designating the forecast rule corresponding to the highest hit rate as a target rule (paragraph [0034]. lines 1-3, paragraph [0037], lines 1-7). However Jenkins et al. does not explicitly disclose an input module, a calculation module, coupled to the input module, calculating at least one forecast hit rate, each of which corresponds to a forecast rule; a selection module, coupled to the calculation module, and a designation module, coupled to the selection module. It is common knowledge in the prior art for the apparatus of Jenkins et al. to include various modules (i.e. input module, calculation module, selection module, designation module, etc.) and to calculate (i.e. accumulate) a forecast hit rate (i.e. orders) corresponding to a forecast rule when accumulating forecasted demand. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made for the apparatus of Jenkins et al. to include to feature of an input module, a calculation module, coupled to the input module, calculating at least one forecast hit rate, each of which corresponds to a forecast rule; a selection module. coupled to the calculation module, and a designation module, coupled to the selection module. The motivation for doing so would have been to separate the implementation of performing a specific function of the apparatus in order to adjust/modify the forecasted demand by selecting the highest hit rate as the target rule.

Regarding to claim 13, Jenkins et al. discloses the invention substantially as claimed. Jenkins et al. discloses a storage medium (i.e. external system/server, see fig. 1b) for storing a computer program providing a method of dynamic customer demand forecasting (paragraph [0002], lines 1-2), the method comprising the steps of: inputting

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at least one forecast rule (paragraph [0028], lines 1-4, paragraph [0029], lines 1-3); accumulating forecasted demand (paragraph [0030], lines 7-10); selecting a highest hit rate from the forecast hit rate; and designating the forecast rule corresponding to the highest hit rate as a target rule (paragraph [0034], lines 1-3, paragraph [0037], lines 1-7). However, Jenkins et al does not explicitly disclose calculating at least one forecast hit rate, each of which corresponds to a forecast rule. It is common knowledge in the prior art to calculate (i.e. accumulate) a forecast hit rate (i.e. orders) corresponding to a forecast rule when accumulating forecasted demand. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made for the storage medium of Jenkins et al. to include to feature of calculating at least one forecast hit rate (i.e. orders), each of which corresponds to a forecast rule. The motivation for doing so would have been to adjust/modify the forecasted demand by selecting the highest hit rate as the target rule.

Regarding to claim 19, Jenkins et al. discloses the invention substantially as claimed. Jenkins discloses a system of dynamic customer demand forecasting (paragraph [0002], lines 1-2), comprising: an operation computer (i.e. external system/web client) (paragraph [0057], lines 1-5, see fig. 1b), inputting at least one forecast rule (paragraph [0028], lines 1-4, paragraph [0029], lines 1-3), accumulating forecasted demand (paragraph [0030], lines 7-10), selecting a highest hit rate from the forecast hit rate, and designating the forecast rule corresponding to the highest hit rate as a target rule (paragraph [0034], lines 1-3, paragraph [0037], lines 1-7); and at least one database, coupled to the operation computer, storing the forecast rule, the forecast

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hit rate, and the target rule (i.e. information for operation) (paragraph [0019], lines 1-3, paragraph [0028], lines 1-6). However, Jenkins et al does not explicitly disclose calculating at least one forecast hit rate, each of which corresponds to a forecast rule. It is common knowledge in the prior art to calculate (i.e. accumulate) a forecast hit rate (i.e. orders) corresponding to a forecast rule when accumulating forecasted demand. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made for the system of Jenkins et al. to include to feature of calculating at least one forecast hit rate (i.e. orders), each of which corresponds to a forecast rule. The motivation for doing so would have been to adjust/modify the forecasted demand by selecting the highest hit rate as the target rule.

Regarding to claims 3, 9, 15 and 21, Jenkins et al. discloses wherein the forecast rule comprises a forecast base rule (i.e. forecast for the period) (paragraph [0029], lines 1-3) and at least one customer defined rule (i.e. input by customer orders) (paragraph [0031], lines 1-2).

Regarding to claims 4, 10, 16 and 22 Jenkins et al. discloses integrating (i.e. supplement) the forecast base rule and the customer defined rule into the forecast rule (paragraph [0031], lines 1-2 and 6-8).

Regarding to claims 5, 11, 17 and 23, Jenkins et al. discloses the invention substantially as claimed. Jenkins et al. discloses prorating the forecast by demand to date (paragraph [0030], lines 1-3) and setting the need date on which the first demand occurs (i.e. date of the first order) (paragraph [0048], lines 5-6). However, Jenkins et al. does not explicitly disclose wherein the forecast base rule is produced according to the

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most current order. It is common knowledge in the prior art to produce the forecast base rule according to the most current order when prorating the forecast by demand to date. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made for the computer implemented method, apparatus, storage medium and system of Jenkins et al. to include the feature of wherein the forecast base rule is produced according to the most current order. The motivation for doing so would have been to dynamically forecast demand and efficiently develop delivery capabilities of customer orders based on the most current orders.

Regarding to claims 6, 12, 18 and 24, Jenkins et al. discloses wherein the forecast hit rate is calculated according to orders (i.e. customer orders) (paragraph [0031], lines 1-2 and 6-8, paragraph [0034], lines 1-3, paragraph [0037], lines 1-7).

 Claim 2, 8, 14 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jenkins et al. (U.S. Pub No. 2002/0188499 A1) in view of Borders et al. (U.S. Pat. No. 7,139,721 B2).

Regarding to claims 2, 8, 14 and 20, Jenkins et al. discloses the invention substantially as claimed. However, Jenkins et al. does not disclose providing the target rule to a capacity allocation model for capacity allocation. Borders et al. discloses providing customer order data (i.e. target rule) to determine an actual capacity allocation distribution. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the computer implemented method, apparatus, storage medium and system of Jenkins et al. with the feature of providing

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the target rule to a capacity allocation model for capacity allocation as taught by Borders et al., as both Jenkins et al. and Borders et al. are directed to a computer implemented method, apparatus, storage medium and system of dynamic customer demand forecasting. The motivation for doing so would have been to efficiently develop delivery capabilities of customer orders.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan G Sterrett whose telephone number is 571-272-6881. The examiner can normally be reached on Monday - Friday (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Beth Boswell can be reached on (571) 272-6737. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Jonathan G. Sterrett/ Primary Examiner, Art Unit 3623 10-9-08